

Name _____ Date _____ Period _____

Writing Algebraic Expressions

Analyze each phrase to determine what operation you would use. Some of the problems have more than one step so you will need to decide in what order the operations should occur. Write each phrase as an algebraic expression using the variable n .

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|-------------------------------------------|--------------------------------------|
| 1. fifteen less than a number | 2. seven times a number |
| 3. three times a number, increased by 12 | 4. the product of nine and a number |
| 5. thirty divided by three times a number | 6. twice a number, decreased by four |

Consider each expression. Write a phrase that represents the expression. Be sure to check for reasonableness!

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|-------------|-----------------------|
| 7. $n + 12$ | 8. $\frac{n}{12}$ |
| 9. $3n - 4$ | 10. $\frac{8 + n}{2}$ |

Analyze each problem to determine the operation you will use. Some of the problems have more than one step so you need to decide in what order the operations should occur. Write an algebraic expression for each situation.

11. Tra'von earns \$25 a day working after school at the supermarket. How much money will he earn in d days?
12. It costs \$5 to get into the county fair. It costs \$1 for one ride ticket. How much will you spend to go to the fair and purchase t tickets?
13. Your mom wins \$100 on a scratch-off ticket. She wants to split it between you and your sisters. How much will each of you receive if there are c children?
14. A pizza delivery driver earns \$8 an hour and works h hours per day. He also spends \$20 a day on gas. How much will the driver earn in one day?